

JAIVIK PATEL

QUALITY TECHNICIAN – Quality Control, Manufacturing Process & Engineering Design

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SKILLS

- **CAD & Design Tools:** SolidWorks, NX CAD, 3D modeling, GD&T applications & tolerance stack-up analysis.
- **Metrology & Inspection:** PC-DMIS, CMM programming, GD&T validation & dimensional quality reporting.
- **Additive Manufacturing:** Powder bed fusion, build preparation, AM software & laser scanning strategies.
- **Non-Destructive Testing (NDT):** Visual, ultrasonic, dye testing & magnetic particle inspection.
- **Welding & Fabrication:** TIG/MIG welding, joint design, weld quality inspection & metal fabrication.

WORK EXPERIENCE

Manufacturing Technician

May 2022 – June 2025

Husky Injection Molding Systems Ltd.

Ontario

- Integrated NX CAD dimensions into Mitutoyo Quick Vision programs, improving inspection throughput by 12% and enhancing dimensional accuracy for complex injection mold geometries across Husky products worldwide.
- Set up, programmed, and operated CNC machines for sandblasting operations, maintaining over full alignment accuracy with engineering drawings and reducing material scrap rates by 13% through precision calibration.
- Guided technical mentorship to team members by troubleshooting sandblasting and finishing challenges, driving improvement initiatives that reduced rework cycles by 20% and increased overall process reliability across shifts.
- Performed high-precision polishing of mold components to achieve standard Ra surface finishes, ensuring compliance with industry standards and reducing defect rejections by over 18% year-on-year across accounts.
- Prepared advanced polishing tools, including abrasive stones, diamond pastes, rotary systems, and buffing wheels to eliminate machining marks, reducing polishing times by 12% while ensuring consistent mirror-quality surfaces.
- Applied precision instruments (calipers, micrometers, gauges) to validate tolerances, improving first-pass yield by 15% and ensuring compliance with Husky's engineering specifications and international ISO-certified standards.
- Collaborated with cross-functional design and production teams to optimize mold geometry and surface treatment methods, reducing defect propagation by 12% and enhancing overall mold lifecycle reliability across projects.

Quality Engineer

July 2017 – August 2019

Renishaw Metrology Systems Ltd.

India

- Conducted structured black-box testing for RenAM 500Q quad-laser AM platforms, identifying 25+ software anomalies and reducing failure recurrence by 25% across production and validation environments worldwide.
- Executed field testing at Renishaw plc, UK, leading FAT processes and validating 30% control software modules, achieving full acceptance on targeted test scopes and supporting reliable system integration outcomes globally.
- Performed regression testing on C-X Programmer software for Omron PLCs, reporting 50+ issues to development teams and driving a 18% improvement in stability and control logic reliability across manufacturing platforms.
- Facilitated AM system development by validating cross-functional modules, including RBV, silo integration, and filter monitoring, enabling release-readiness and reducing post-launch issue reports by 15% across all markets.
- Prepared precise 2D/3D mechanical component models in SolidWorks, converting the same into build files for AM platforms, improving design-to-build efficiency by 20% and enabling rapid prototyping of key test components.
- Mentored two junior engineers on AM machine operations and control systems, accelerating onboarding timelines by 27% while improving overall team independent capability to troubleshoot, test, and production issues.
- Developed structured defect tracking reports and validation metrics, streamlining communication between QA, design, and software teams, which reduced issue resolution timelines by 20% and improved release planning.

EDUCATION

Masters of Engineering (MEng) in Mechanical Engineering

August 2019 – July 2021

Concordia University, Quebec

Bachelor of Technology (BTech) in Mechanical Engineering

June 2013 – July 2017

Symbiosis International University, India

CERTIFICATIONS

- **Additive Manufacturing Specialization** from Arizona State University (Coursera) August 2025
- **SOLIDWORKS 3D CAD for Education Specialization** from Dassault Systèmes (Coursera) August 2025
- **Six Sigma Yellow Belt** from Kennesaw State University (Coursera) September 2025
- **PC-DMIS Level 1 Certification** from CMMXYZ Training Institute September 2025